

## APPENDIX 4. 1999 SEMINARS

### Laboratory for Atmospheres Seminar Series

Drew Shindell, NASA GISS, "Interactions of Stratospheric Ozone and Climate Change," January 12.

Eric Smith, Florida State University, "Quantitative Assessment of Day One TRMM Precipitation Algorithms: Improvements from SSM/I Intercomparison Era," January 26.

Thomas Donohue, University of Michigan, "Water on the Terrestrial Planets, Now and in The Past," February 9.

Yoram Kaufman, NASA GSFC, "Use of the EOS-AM Data to Reduce the Uncertainties in the Aerosol Effect on Climate," February 23.

Frank Marks, NOAA/Hurricane Research Division, "The Asymmetric Distribution of Vertical Motions and Precipitation in the Hurricane Eyewall," March 9.

Joanna Joiner, NASA GSFC, "Improving the Use of Passive Microwave and Infrared Sounding Information in the GEOS-DAS," March 23.

Mary-Anne Carol, University of Michigan, "The Program for Research on Oxidants: Photochemistry, Emissions, and Transport - Research Objectives and Preliminary Results of the 1997 and 1998 Measurement Intensives," April 13.

Chris Kummerow, NASA GSFC, "Comparison of Radar and Radiometer Estimates of Rainfall from TRMM," April 27.

Anthony Davis, Los Alamos National Laboratory, "From Landsat Cloud Scenes and Lite's Stretched Pulses to Future "THOR" Lidars," May 11.

Wayne Kasprzak, NASA GSFC, "The Martian Atmosphere," May 18.

William Collins, NCAR, "Effects of Enhanced Shortwave Absorption on Simulations of the Tropical Pacific Ocean/Atmosphere System," May 25.

Robert D. Cess, Marine Sciences Research Center, State University of New York, "Atmospheric General Circulation Models: Can Seasonal and Latitudinal Changes of Cloud-Radiative Forcing be Used to Validate Cloud-Climate Feedback?" September 14.

Mark R. Schoeberl, NASA GSFC, "NASA's Earth Science Vision," September 21.

Bruce Wielicki, NASA Langley Research Center, "New Results from TRMM on Clouds, Radiation and Climate," October 7.

Robert E. Dickinson, University of Arizona, "What Does Nitrogen Have to do with Evapotranspiration?" October 19.

James H. Butler, NOAA/CMDL, "Obtaining Atmospheric Histories of Trace Gases from Analyses of Polar Firn Air," November 2.

Matthew Wheeler, National Center for Atmospheric Research (NCAR), "Synoptic to Intraseasonal Modes of Coherent Tropical Convective Variability," November 16.

Kevin Trenberth, National Center for Atmospheric Research (NCAR), "The Global Monsoon," December 7.

Leonard J. Pietrafesa, North Carolina State University, "Atmospheric Winds, Ocean Waves and Currents in a Coupled Model," December 21.

## Data Assimilation Office

Dr. Michael Fox-Rabinovitz, Data Assimilation Office/GSFC, "Stretched Grid GEOS GCM and DAS," February 5.

Dr. Sid-Ahmed Boukabara, AER, "The Combined Use of C-Winds and AMSR Data," March 3.

Takayuki Matsumara, NCEP/EMC/UCAR, "GPS Radio Occultation Techniques," March 12.

Bram Van Leer, University of Michigan, "Genuinely Multi-Dimensional Methods in Computational Fluid Dynamics," August 12.

Michael Bosilovich, Data Assimilation Office/GSFC, "Land-Atmosphere Interactions in Hydrometeorology," September 3.

Dr. Michael Ghil, UCLA, Laboratoire de Meteorologie Dynamique (LMD), "ENSO: A Unified Theory and Implications for Prediction," September 13.

Richard Rinshaw, UK Meteorological Office, "Use of Satellite Data at UKMO," September 24.

Brett Harris, Australian Meteorological Office, "Use of Satellite Data at BMRC," September 24.

Zoltan Toth and Istvan Szunyogh, NCEP, "Targeted Observations at NCEP," September 24.

Ron Errico, NCAR, "Precipitation Assimilation," October 25.

Joseph Jaja, University of Maryland, College Park, "Parallel Computing," November 22.

Ivanka Stajner, Data Assimilation Office/GSFC, "The GEOS Ozone DAS: Initial Results and Validation of a 9-month Ozone Assimilation," December 17.

## Mesoscale Atmospheric Processes Branch

Steven J. Goodman, NASA/Marshall Space Flight Center, "Recent Observations of the Distribution and Variability of Global Thunderstorm Activity," February 19.

Arlene Laing, University of South Florida, "The Large-Scale Environments of the Global Population of Mesoscale Convective Complexes," March 8.

Song Yang, Florida State University, "Precipitation and Latent Heating Retrieved from Satellite Measurements," April 8.

Christopher R. Williams, CSU/CIRES, "UHF and S-band Profilers Used in Support of Ground Validation of the TRMM Satellite During TEFLUN-B," May 13.

Jeffrey Nystuen, University of Washington, "Rainfall Analysis Using Underwater Sound," June 4.

David Atlas, NASA GSFC, "An Observationally Based Conceptual Model of Precipitation Growth in Warm Tropical Convective Clouds," June 10.

Anne Garnier, Service d'Aeronomie du CNRS, "OHP Rayleigh-Mie Doppler Lidar for Atmospheric Wind Measurements," June 14.

Shuliang Zhang, Woods Hole Oceanographic Institution, "Surface Fluxes and their Influence on Sea Surface Temperature in the Western Equatorial Pacific during COARE," June 22.

David Short, Institute for Hydrospheric and Atmospheric Sciences, "Storm Height Distributions and Shallow Rain From the Tropical Rainfall Measuring Mission (TRMM) Precipitation Radar," July 1.

Ronald Gelaro, Naval Research Laboratory, Monterey, CA, "A Predictability Study Using Geostationary Satellite Wind Observations During NORPEX," October 4.

## Climate and Radiation Branch

Andy Moore, University of Colorado, "The Non-Normal Nature of ENSO and Intraseasonal Variability," February 3.

Timothy Liu, Jet Propulsion Laboratory, "Scientific Application of NSCAT Data," February 10.

Dave Carlson, Hal Cole, NCAR, "Dry Bias in Global Radiosonde Humidity Data: Cause, Correction, and Consequences," February 23.

Steven Platnick, Climate and Radiation Branch/GSFC, "Cloud Retrievals in the Solar Spectrum," February 24.

Samuel Shen, University of Alberta, Canada, "Optimal Estimation of Climate Parameters," March 3.

Jun-Ichi Yano, New York University, "Some Aspects of the Tropical Atmospheric Dynamics," March 8.

Tamas Varnai, University of Arizona, "Calculating the Statistical Properties of Simulated Cloud Reflectance, Fields Using Interactive Empirical Bayesian Updating," March 11.

Charles K. Gatebe, Climate and Radiation Branch/GSFC, "Optimal Estimation of Climate Parameters," March 12.

Lorraine Remer, Climate and Radiation Branch/GSFC, "What Will We Learn from MODIS Data about Global Aerosols?" March 24.

John Bates, NOAA/ERL/CDC, "The Humidistat Hypothesis: Tropical Air-Sea Interactions and the Hydrological Cycle," April 6.

Zhanqing Li, Canada Centre for Remote Sensing, "FIRE 3M/3S Project: Monitoring, Mapping and Modeling of Fire Spots, Scars and Smoke over Boreal Forests," April 7.

Vikram Mehta, Climate and Radiation Branch/GSFC, "Decadal Variability of ENSO and its Teleconnections," April 14.

Arun Kumar, NOAA/NCEP, "An Analysis of Variability in the Extratropical Response to Changes in Tropical SST Forcing," April 21.

Roger Davies, University of Arizona, "A Multiangle Perspective of Cloud Properties," May 5.

Anthony Delgenio, NASA/GISS, "Climatic Implications of the Observed Temperature Dependence of the Liquid Water Path of Low Clouds," May 19.

David Neelin, UCLA, "Variations of ENSO Phase Locking," May 21.

Peter Pilewski, NASA/Ames Research Center, "A Moderate Resolution View of the Solar Spectrum in Earth's Atmosphere," June 2.

Siegfried Schubert, Data Assimilation Office, "The Seasonal Prediction Problem," June 16.

Byung-Ju Sohn, Seoul National University, "SSM/I Water Vapor Retrieval and the Study of East Asian Summer Monsoon," August 4.

Reinout Boers, CSIRO, Australia, "Ground-based Remote Sensing of Cloud Microphysical and Optical Properties," August 23.

Prabakara Cuddapah, Climate and Radiation Branch/GSFC, "Rain Estimation Over Land and Ocean from TRMM Microwave Imager Data," September 8.

Yogesh Sud, Climate and Radiation Branch/GSFC, "Cloud Microphysics in GEOS II GCM - Parameterization, Problems, and Prospects," September 29.

Ning Zeng, Climate and Radiation Branch/GSFC, "Does Vegetation Interaction Enhance Tropical Climate Variability?" October 13.

Klaus Pfeilsticker, University of Heidelberg, "Recent Observations on 3D Effects of Clouds on the Radiative Transfer: Geometrical Pathlengths, Radiative Smoothing and the Multifractality of the Zenith Sky Radiances," November 10.

David Starr, Climate and Radiation Branch/GSFC, "Comparison of Cirrus Cloud Models: A Project of the GEWEX Cloud System Study (GCSS) Working Group on Cirrus Cloud Systems," November 17.

Ernesto Hugo Berbery, University of Maryland, "Mesoscale Circulations in the American Monsoons," November 23.

Grzegorz Jan Ciach, University of Oklahoma, "The Estimation/Validation Problem for Remote Sensing of Rainfall," December 8.

Kikuro Miyakoda, George Mason University/COLA, "The ENSO-monsoon System as Viewed by Six Indices," December 15.

Sonia Kreidenweis, Colorado State University, "Observations of Smoke Aerosol from Biomass Burning in Mexico," December 21.

## Atmospheric Chemistry and Dynamics Branch

Drew Shindell, NASA-GISS/Columbia University, "Interactions of Stratospheric Ozone and Climate Change," January 12.

Colin Hines, National Research Council, "The Eulerian Tail in Wave Spectra and Its Application to Gravity-wave Saturation in the Middle Atmosphere," January 20.

Jerry Lumpe, Computational Physics Inc., "Solar Occultation for POEM," January 28.

Jessica Neu, Massachusetts Institute of Technology, "An Investigation of Stratospheric Transport Using the "Leaky Pipe" Method," February 18.

Elizabeth Weatherhead, University of Colorado, "Detecting Ozone Recovery," March 10.

Sam Yee, Applied Physics Laboratory, "Stellar Occultation," March 11.

Robert Loughman, CCAST/University of Arizona, "Examination of the Calibration of the SOLSE Instrument Using Nadir Viewing Images," March 18.

Lyatt Jaegle, Harvard University, "Ozone Production in the Upper Troposphere: Evidence for NO<sub>x</sub>-Saturated Conditions," March 25.

Peter Fabian, University of Munich, Germany, "Climate Change and Vegetation," April 5.

Ken Pickering/Dale Allen, "SONEX Nox had no Unique Aircraft Fingerprint but Fresh Nox Looks Like Lightning," April 8.

Ulrich Schumann, DLR-Institut fuer Physik der Atmosphaere, "Aviation induced Aerosols and Cloudiness," April 16.

Andrew Gettelman, University of Washington, "3D Simulations of Water in the Tropopause Region," May 28.

Jun Ma, University of Chicago, "A Lagrangian Method to Correlate and Map UARS Data to Diagnose Trends and Dynamical Processes," June 10.

Irina Petrapavlovskikh, University of Colorado, "Recent Reanalysis of Umkehr Record," September 16.